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| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|--|-------------|--------------|----------------------|---------------------|------------------|--|
| 10/805,809 | 03 | 3/22/2004 | Sudhir Kumar Madan | TI-36818 | TI-36818 9964 | |
| 23494 | 7590 | 02/16/2006 | | EXAMINER | | |
| | - | NTS INCORPOR | MAI, SON LUU | | | |
| P O BOX 655474, M/S 3999 DALLAS, TX 75265 | | | | ART UNIT | PAPER NUMBER | |
| | | | | 2827 | | |

DATE MAILED: 02/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| · · · · · · · · · · · · · · · · · · · | | Application No. | Applicant(s) | | | | |
|--|--|---|--|-------------|--|--|--|
| | | 10/805,809 | MADAN ET AL. | | | | |
| | Office Action Summary | Examiner | Art Unit | | | | |
| | | Son L. Mai | 2827 | | | | |
| | The MAILING DATE of this communication | | | ess | | | |
| Period fo | | ., | | | | | |
| WHIC - Exte after - If NC - Failu Any | ORTENED STATUTORY PERIOD FOR R CHEVER IS LONGER, FROM THE MAILIN nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication to period for reply is specified above, the maximum statutory put to reply within the set or extended period for reply will, by treply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b). | IG DATE OF THIS COMMUN FR 1.136(a). In no event, however, may on. period will apply and will expire SIX (6) MG statute, cause the application to become | IICATION. a reply be timely filed ONTHS from the mailing date of this comm ABANDONED (35 U.S.C. § 133). | | | | |
| Status | | | | | | | |
| 1) 🏹 | Responsive to communication(s) filed on | 3/22/04:7/30/04:8/30/04. | | | | | |
| , | • | This action is non-final. | | | | | |
| 3) | <u></u> | | | | | | |
| -, | closed in accordance with the practice un | | | | | | |
| Disposit | ion of Claims | | | | | | |
| | · | ation | • | | | | |
| 7/23 | Claim(s) <u>1-40</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5) | Claim(s) is/are allowed. | | | | | | |
| | Claim(s) <u>1,12-15,18-22,24-26,37 and 38</u> is/are rejected. | | | | | | |
| | Claim(s) <u>2-11,16,17,23,27-36,39 and 40</u> is/are objected to. | | | | | | |
| 8) | Claim(s) are subject to restriction a | and/or election requirement. | | | | | |
| Applicat | ion Papers | | | | | | |
| | The specification is objected to by the Exa | miner | | | | | |
| , — | The drawing(s) filed on <u>30 August 2004</u> is/ | | objected to by the Examiner. | | | | |
| , 4/63 | Applicant may not request that any objection to | | | | | | |
| | Replacement drawing sheet(s) including the co | | | 1.121(d). | | | |
| 11) | The oath or declaration is objected to by the | ne Examiner. Note the attach | ed Office Action or form PTO- | 152. | | | |
| Priority (| under 35 U.S.C. § 119 | | | | | | |
| - | Acknowledgment is made of a claim for for | reign priority under 35 U.S.C. | & 119(a)-(d) or (f) | | | | |
| | \square All b) \square Some * c) \square None of: | reight priority under do d.d.d. | 3 1 10(4) (4) 51 (1). | | | | |
| ر م | 1. Certified copies of the priority docu | ments have been received. | | | | | |
| | 2. Certified copies of the priority documents | | Application No | | | | |
| | 3. Copies of the certified copies of the | | | age | | | |
| | application from the International B | | | | | | |
| * (| See the attached detailed Office action for | a list of the certified copies no | ot received. | | | | |
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| Attachmer | | | | | | | |
| | ce of References Cited (PTO-892) | | v Summary (PTO-413) o(s)/Mail Date | | | | |
| | ce of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449 or PTO/S | · / / / / / / / / / / / / / / / / / / / | f Informal Patent Application (PTO-15 | 52) | | | |
| Pape | er No(s)/Mail Date <u>3/22/04; 7/30/04</u> . | 6) Other: _ | | | | | |
| S Patent and | rademark Office | | | | | | |

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DETAILED ACTION

1. The papers filed 03/22/04; 07/30/04 and 08/30/04 have been received and entered. Accordingly claims 1-40 are pending in the application.

Information Disclosure Statement

2. The information disclosure statement filed 03/22/04 and 07/30/04 have been considered.

Drawings

3. The drawings were received on 08/30/04. These drawings are acceptable.

Specification

4. The disclosure is objected to because of the following informalities: On page 22, lines 8-9, the description does not agree with the drawing of figure 3J. In the figure 3J, wordline activation pulses 113 are applied only during a restore or a write operation, but not during a read operation. Further, these features claimed in claims 15, 24, 25, 37 and 38 are not consistent with drawings. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 12-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As to claim 12, the claim recites the limitation "the second plate group" in line 3. There is insufficient antecedent basis for this limitation in the claim.

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Claims 13-14 are rejected for including the limitation of claim 12.

As to claim 15, it is not clear if "a first voltage" (line 4) is the same voltage as a first voltage in claim 1. If they are the same then "a first voltage" in claim 15 should read –the first voltage--.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

8. Claims 1, 15, 18-22, 24-26 and 37-38 are rejected under 35 U.S.C. 102(e) as being anticipated by Nishihara et al. (U.S. Patent 6,566,698).

Regarding claim 1, Nishihara teaches a method for accessing ferroelectric memory cells (MC) in a ferroelectric memory device comprising: performing a read, restore, or write operation to access one or more ferroelectric memory cells along a selected wordline in a ferroelectric memory array (figures 12 and 13 show read and

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write operations); and activating a non-selected wordline (WL2) while a bitline (BL2) and a plateline (PL2) associated with the ferroelectric memory cells along the non-selected wordline are both substantially at a first voltage (Vcc/2).

Regarding claim 15, Nishihara teaches the non-selected wordline (WL2) is activated during write operation while the bitline (BL2) and plateline (PL2) associated with the ferroelectric memory cells along the non-selected wordline are both substantially at a first voltage (Vcc/2).

Regarding claims 18-22, 24-26 and 37-38, they are rejected under 35 U.S.C. 102(e) as being anticipated by Nishihara et al. (U.S. Patent 6,566,698) for claiming substantially the same subject matter as claims 1 and 15.

Allowable Subject Matter

- 9. Claims 2-11, 16-17, 23, 27-36 and 39-40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 10. Claim 12-14 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 11. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record fails to teach at least the limitation of claim 2 which calls for the first voltage is ground.

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Conclusion

12. The prior art made of record is considered pertinent to applicant's disclosure.

Komatsuzaki (U.S. Patent 6873536 B2), Kye (U.S. Patent 6288931 B1), and Kuroda;

(U.S. Patent 5550770 A) disclose platelines are grouped together in ferroeletric memory devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Son L. Mai whose telephone number is 571-272-1786. The examiner can normally be reached on 8am to 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

02-01-06

Son L. Mai Primary Examiner Art Unit 2827